

EVERSHARP, Inc.

**S E R V I C E
M A N U A L**



EVERSHARP, INC. • 1800 ROSCOE ST. • CHICAGO 13, ILLINOIS

INTRODUCTION

This manual has been prepared to acquaint you with parts used in Eversharp pens and pencils and to outline repairing procedures. We realize that every satisfactory repair depends greatly on the skill of the service man. He should know the pen and pencil. To give the satisfaction that a customer should expect from a precision writing instrument—he should understand the following:

1. The *correct parts* that make up a pen and automatic pencil.
2. The functional characteristics of a pen; *air pressure, ink flow*, and the *necessary adjustments* to control them.
3. The *tools* that are required to make the repairs and adjustments.
4. He must understand *nibs* and *writing styles*. A perfect writing pen may prove unsatisfactory to its owner unless the nib meets his particular need.

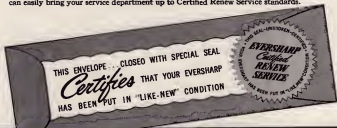
After the pen has been properly repaired one other factor must be considered—your customer. Teach him to *properly fill* and care for this pen. This is important. You will be rewarded with your customers' appreciation of a job well done.

EVERSHARP *Certified* **RENEW SERVICE**

THE Eversharp Certified Renew Service, recently announced, has already met with outstanding success all over the country. It is quite obvious that consumers can be sold a really complete repair job at a price which is both acceptable to them and profitable to the dealer. We have all wanted to go beyond the realm of "functional repair", and we feel that our Certified Renew Service accomplishes this to the satisfaction of everyone concerned.

There is one very vital point that must be understood. Eversharp has no intention, now or at any future time, to abrogate any guarantees that are in effect. The Certified Renew Service is an extra service . . . a service that is being sold and sold hard through our "Take It Or Leave It" radio program, with point of sale and counter displays. In addition it is being merchandised with a special envelope with a gold seal certifying that the customer has received the Renew Service. At the present time, this service is being successfully sold, because it represents a real value.

Here is what the Renew Service consists of: The units will be completely disassembled, worn or deteriorated parts replaced, then cut down and buffed to a "like new" finish. You are undoubtedly performing most of these operations, and we are certain that you can easily bring your service department up to Certified Renew Service standards.



- COUNTER CARDS
 - STREAMERS
 - "TAKE IT OR LEAVE IT"
- Starring GARRY MOORE

Everything you need to sell your customers
EVERSHARP'S CERTIFIED NO. 150 RENEW SERVICE

EVERSHARP SKYLINE PENS



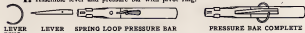
All Eversharp Skyline Pens consist of a barrel assembly, cap assembly and nib and feed assembly.



Barrel Assembly

Barrel assembly consists of barrel, lever, pivot spring, pressure bar, sac and section. In assembling the component parts of the barrel assembly, use the following procedure:

1. Assemble lever and pressure bar with pivot ring.



Place lever directly on pressure bar spring loop. Press down lever with thumb above perforation and insert pivot ring through both.



On older Skyline models. Replace anchor pressure bar or V spring type pressure bar with a new assembly consisting of new style pressure bar and the lever removed from original barrel. Old and new style model levers look the same but are perforated differently. Using the wrong lever will either leave a small opening in barrel slot or lever will not close correctly in slot.



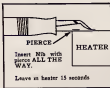
2. Assemble pressure bar assembly to barrel using lever assembly tool #10-R-5. Insert assembly in tool and slowly guide assembly into barrel until lever is about $\frac{3}{4}$ into lever slot. Raise tool while completing assembly so that lever will go above barrel slot. Remove tool #10-R-5 and gently pull assembly in place. Pivot ring will engage in groove in barrel holding assembly firmly in place. Operate lever several times to insure satisfactory action.

3. Assemble sac to section. Coat shoulder of section with sac cement. Slip sac over cemented shoulder.

4. Assemble section assembly to barrel. Apply acetone with a small brush to inside of barrel. Press barrel and section firmly together. Insert slender rod through section and into sac to be certain sac is not twisted in barrel.

EVERSHARP SKYLINE PENS (Cont'd)

5. Assemble nib and feed to barrel. Ream section to proper size for nib and feed assembly. Use hand reamer #11-R-8 (small feed) or #11-R-9 (large feed). Assemble breather tube to feed. Place nib over feed. Grasp nib and feed, in nib setting pliers and press nib and feed firmly in place with point of nib aligned with lever. Use nib projection gauge for proper depth of setting.
6. Adjust nib. Nib adjustment is very important and requires care and skill. A properly adjusted nib will insure smoother writing with uniform flow of ink and an improperly adjusted nib will flow uneven and be scratchy. The following steps must be observed in making the adjustment.
 - A. Point of feed must rest against nib. Check pressure of feed against nib using a piece of ordinary paper (approximately .0035" to .004" thick) as a gauge. Paper *MUST NOT* fit between feed and nib. If paper does fit, feed must be heated and burnished into place so that it rests lightly against nib. Cool feed and check again.
 - B. Points of nib must be aligned, so that tip approximates a sphere. To align points, use a burnisher and press firmly against shoulder of point to be moved, bracing opposite shoulder of nib against the thumb. If necessary, repeat procedure on opposite shoulder. This may close gap in slit of nib, and, if necessary to open or widen gap in slit, place feed on solid surface and, using a burnisher, press nib firmly behind perforation. Repeat operation until desired gap is obtained. Occasionally a nib, even though properly adjusted, may be rough or "scratchy." To remove roughness, hone the nib on a fine grade of crocus paper (0000) treated with rouge. Describe a figure eight motion on the crocus paper, rotating the pen while describing the figure eight.



CAP ASSEMBLY

A complete cap consists of the cap and the cap end and clip assembly. The cap end and clip assembly is made up of a cap end, clip band, outer clip and inner clip. Use the following procedure to assemble:

1. Slip cap band over stem of cap end, cap side down. Align notch in top of band with groove in top of cap end.
2. Engage prongs of outer clip in notch of cap band. Circular portion of outer clip should lie in groove of cap end.
3. Slip stem of cap end through inner clip.

Press inner clip into the notch in the side of cap band. Tang of inner clip now should be under outer clip.

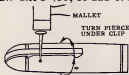
4. Press tang of inner clip firmly into the channel of outer clip. Fold bottom ear of outer clip over inner clip. Do this firmly but preserve radius of ear. Tightly close small side ears over tang of inner clip. Large side ears are now pressed firmly against bottom ear.
5. Screw cap end and clip assembly into cap.
6. Firmly press cap end of cap into tool No. 11-R-3. Clip should enter slot. This will iron clip band to conform with the outside of cap.



Caps which were made prior to 1946 must be modified to accommodate the new style cap end and clip assembly. This modification may be made by reaming the cap with tool #11-R-1 and retapping threads with plug tap #11-R-5.



TO TIGHTEN GOLD FILLED SHELLS ON PRESENTATION PEN CAPS (60, 61 and 49Y)



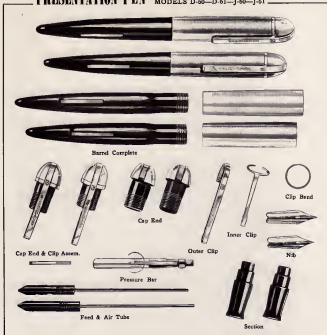
If the gold filled cap shell should come loose, tighten in the following manner: Insert the closed end of a pen barrel into cap. The cap should be in same position as when writing. Exert pressure on barrel to expand insert against shell while holding parts in this manner, tighten cap end into insert. Be sure that shell is pressed firmly against clip band. With pointed tool, pierce or indent the cap shell about $\frac{1}{4}$ " down from clip band and to the left of the clip. Turn shell clock-wise on liner so that the indentation is concealed by clip.

Inserts that are very loose may be removed, cement applied and re-assembled. Screw a plug tap into cap thread and pound out insert. Coat insert with 3M cement and carefully tap insert into shell. Allow 24 hours for cement to set before completing the assembly.

When threads in insert are stripped, replace the insert. The worn insert may be burned out or drilled out with a 29/16" drill. Re-assemble as above.

PRESENTATION PEN

MODELS D-60—D-61—J-60—J-61



PRICE LIST

MODEL NO.	D60 (J60)	D61 (J61)	MODEL NO.	D60 (J60)	D61 (J61)				
List Price	\$9.75	\$6.75	List Price	\$9.75	\$6.75				
Part Name	Part No.	Price	Part No.	Price	Part No.	Price			
Cap Complete	5045	\$5.35	5031	\$5.35	Lever	5095	.15	5085	.15
Cap Only	5283	3.50	5260	3.50	Pressure Bar	5181	.15	5181	.15
Cap End & Clip Assen.	5576	1.85	5575	1.85	Section	10022	.25	10023	.25
Cap End	5574	1.00	5573	1.00	Sec	5086	.30	5087	.10
Outer Clip	10037	.35	10037	.35	Feed & Air Tube	5241	.25	5240	.25
Inner Clip	8098	.25	8098	.25	Nib 7-5 A				3.25
Clip Band	5099	.25	5099	.25	Nib 55-5 A		2.50		3.25
Barrel Complete *	10021	1.45	10018	1.05					

* Includes lever and pressure bar
A 30c old gold allowance

PRESENTATION PEN

MODELS 60-61



PRICE LIST

MODEL NO.	60	61	MODEL NO.	60	61
List Price	\$9.75	\$9.75	List Price	\$9.75	\$9.75
Part Name	Part No.	Price	Part Name	Part No.	Price
Cap Complete	10171	\$4.70	10172	\$4.70	
Cap Only	1263	1.50	1260	1.50	
Cap End & Clip Assm. 10231	1.20	10232	1.20		
Cap End	1149	.35	1146	.35	
Outer Clip	10037	.35	10037	.35	
Inner Clip	10098	.25	10098	.25	
Clip Band	10099	.25	10099	.25	
Barrel Complete *	12621	1.65	12618	1.65	
Lever	10095	.15	10095	.15	
Pressure Bar	1181	.15	1181	.15	
Section	10022	.25	10023	.25	
Sec	10086	.10	10087	.10	
Feed & Air Tube	1201	.25	1200	.25	
Nib 7-5 "A"					1.25
Nib 12-5 "A"				2.50	
* Includes lever and pressure bar					
"A" 30c old gold allowance					

SKYLINE PEN

MODELS 76P—77P



PRICE LIST

MODEL NO.	76P	77P	MODEL NO.	76P	77P				
List Price	\$5.00	\$5.00	List Price	\$5.00	\$5.00				
Part Name	Part No.	Price	Part No.	Price	Part No.	Price			
Cap Complete	10069	\$1.95	10170	\$1.95	Pressure Bar	5287	.15	5287	.15
Cap Only	6427	.75	9428	.75	Section	10022	.25	10023	.25
Cap End & Clip Assen. 10231	1.20	10232	1.20	Sec	5086	.10	5087	.10	
Cap End	5149	.35	5140	.35	Feed & Air Tube	5241	.25	5240	.25
Outer Clip	10037	.35	10037	.35	Nib 7-5 A				
Inner Clip	5098	.25	5096	.25	Nib 55-5 A	2.50			3.25
Clip Band	5099	.25	5099	.25	* Includes lever and pressure bar				
Barrel Complete *	10221	1.65	12018	1.65	A 30c allowance for old gold				
Lever	5095	.15	5095	.15	B 20c allowance for old gold				

SKYLINE PEN

MODELS 76—77



PRICE LIST

MODEL NO.	76	77	MODEL NO.	76	77				
List Price	\$5.00	\$5.00	List Price	\$5.00	\$5.00				
Part Name	Part No.	Price	Part No.	Price	Part No.	Price			
Cap Complete	5970	\$1.95	5955	\$1.95	Lever	5095	.15	5095	.15
Cap Only	6290	.75	5282	.75	Pressure Bar	5287	.15	5287	.15
Cap End & Clip Assm. 10231	1.20	10252	1.20	Section	10022	.35	10023	.35	
Cap End	5149	.35	5148	.35	Esc	5086	.10	5087	.10
Outer Clip	10037	.35	10037	.35	Feed & Air Tube	5241	.25	5240	.25
Inner Clip	5098	.25	5098	.25	Nib 7-5 A				1.25
Clip Band	5099	.25	5099	.25	Nib 55-5 A		2.50		
Barrel Complete *	12021	1.65	12018	1.65	* Includes lever and pressure bar				
					A 30c allowance for old gold				

STREAMLINER PEN

MODELS 98-99



PRICE LIST

MODEL NO.	98	99	MODEL NO.	98	99	
List Price	\$3.95	\$3.95	List Price	\$3.95	\$3.95	
Part Name	Part No.	Price	Part No.	Price	Part No.	Price
Cap Complete	10248	\$1.45	10250	\$1.45		
Cap Only	5300	.60	5128	.60		
Cap End & Clip Assm.	5289	.85	5288	.85		
Cap End	5317	.35	5316	.35		
Outer Clip	5666	.25	5665	.25		
Inner Clip	6203	.25	6203	.25		
Clip Band						
Barrel Complete	10221	1.65	10218	1.65		
Lever	8095	.15	5095	.15		
Pressure Bar	5287	.15	5287	.15		
Section	10022	.25	10021	.25		
See	5086	.10	5087	.10		
Feed & Air Tube	6182	.35	5034	.35		
#25 Nib * "A"		1.25		1.25		
#24 Nib "A"		1.25		1.25		
± Includes Clip & Pressure Bar						
* When heel is marked with heart use as #24 nib						
"A" 20c allowance as old gold						

STREAMLINER PEN

MODELS 98L—99L (Non-Guaranteed)



PRICE LIST

MODEL NO.	98L	99L	MODEL NO.	98L	99L				
List Price	\$3.95	\$3.95	List Price	\$3.95	\$3.95				
Part Name	Part No.	Price	Part No.	Price	Part No.	Price			
Cap Complete	7075	\$1.45	7073	\$1.45	Pressure Bar	5287	.15	5287	.15
Cap Only	7071	.80	7069	.80	Section	10022	.25	10021	.25
Cap End & Clip Assm.	6280	.85	6288	.85	Sec	5995	.10	5997	.10
Cap End	5317	.35	5315	.35	Feed & Air Tube	6102	.25	6094	.25
Outer Clip	5666	.25	5665	.25	#25 Nib * "A"		1.25		1.25
Inner Clip	6203	.25	6203	.25	#24 Nib "A"		1.25		1.25
Clip Band					± Includes Clip & Pressure Bar				
Barrel Complete ±	12021	1.65	12018	1.65	* When heel is marked with heart use as #24 nib				
Lever	5095	.15	5095	.15	"A" 20c allowance as old gold				

SKYLINE PEN DESK SET

REFER TO SKYLINE PENS
FOR ASSEMBLY INSTRUCTION



SKYLINE DESK SET PENS

The interior mechanism of EVERSHARP SKYLINE Desk Pens is the same as the interior mechanism of EVERSHARP SKYLINE Pocket Pens. Refer to instructions and cross section diagram shown on pages for assembly.

	Pen List Price	\$3.50	\$5.50
	Symbols	No. 1	No. 2
Nib	1.25	3.25
Section25	.25
Taper35	.35
Barrel	1.50	2.00
Humidor	1.00	1.00
Swivel, washer and screw50	.50
Pressure bar15	.15
Sac15	.15
Band15	.15
Lever and pivot wire25	.25
Feed25	.25

Allowance for old nib: No. 1—20c; No. 2, 30c.

FIFTH AVENUE PENS (Cont'd)

INSTRUCTIONS FOR DIS-ASSEMBLY



DIS-ASSEMBLY OF SHEATH AND NIB UNIT

1. Unscrew sheath assembly No. 21. Remove sec No. 20. Remove nib assembly No. 15 by forcing prongs of bushing adjusting tool No. L-102 into slots of bushing and pushing through point of sheath No. 16. (See illustration A.)

2. To remove nib and feed from bushing—insert nib assembly No. 15 into avul tool No. 47. Then insert feed tool No. L-100 into bushing. Tap tool No. L-100 lightly with mallet. (See illustration B.)



DIS-ASSEMBLY OF PRESSURE BAR FROM BARREL

Raise lever on barrel assembly No. 33—push toward open end of barrel—this disengaging pivot ring. Pressure bar assembly No. 8, 9, 10 will drop out. (See illustration C.)



INSTRUCTIONS FOR ASSEMBLY

ASSEMBLY OF NIB UNIT AND SHEATH

1. Place feed No. 13 on nib No. 14—three thirty-seconds from end of nib. Then insert into bushing No. 12 with fingers. (See illustration D.)

2. Place bushing assembly into nib assembly tool No. L-106—being careful to fit nib into slot. (See illustration E.) Then place nib assembly tool No. L-106 into palm of hand—squeeze gently. (See illustration F.) Release tool No. L-106 and remove nib unit No. 15.



3. Place air tube on tool No. L-104 and insert into hole (end of feed. (See illustration G.) Remove tool No. L-104.

4. Place threaded end of sheath No. 16 into hole in avul tool No. 47. Then place nib unit No. 15 in nib unit assembly tool No. L-105—push into top end of sheath until stop mark on tool No. L-101 has been reached. (See illustration H.) If nib unit is not lined up with end of sheath—insert bushing adjusting tool No. L-102 into bushing and turn nib unit to proper position.

5. Cement sec No. 20 on end of sheath assembly.

TO INSERT FIFTH AVENUE NIB BUSHING UNITS IN SHEATH

1. Put A6206 Tool in Vise or Clack.

2. Start Nib Bushing Assembly into Sheath by Hand.

3. Tap Sheath with Mallet using Two Fingers on Sheath to Turn and Line up screw with Nib while Tapping.



ASSEMBLY OF PRESSURE BAR ASSEMBLY INTO BARREL

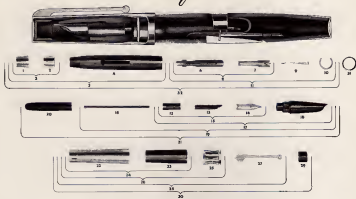
Place pressure bar assembly No. 11 on tool No. L-105—pivot ring with seat itself. Remove tool No. L-105. (See illustration I.)



ASSEMBLY OF BARREL AND SHEATH

Screw sheath assembly into barrel—bottom slot of sheath should line up with lever.

EVERSHARP "Fifth Avenue" PEN



PART NAMES AND NUMBERS

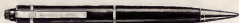
- | | | | | | |
|---------------------------|------|------------------------|------|---------------------|------|
| 14. Nib (Point) Allowance | } 15 | 1. Barrel End | } 5 | 20. Sac | } 30 |
| 13. Feed and Feed Tube | | 2. Barrel Bushing | | 22. Cap Shell | |
| 12. Nib Bushing | } 16 | 4. Barrel only | } 11 | 23. Cap Liner | } 31 |
| 16. Sheath | | 9. Lever | | 25. Friction Spring | |
| | | 10. Pivot Ring | } 8 | 26. Clip | |
| | | 6. Pressure Bar | | 29. Inner Cap | |
| | | 7. Pressure Bar Spring | | 31. Friction Ring | |

PEN PARTS AND PRICES

Part Name	Symbol Nos.	List Price			Purchase Price			Exchange Price		
		12.50	20	21	22	62	64	65	62	64
14. Nib (point)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
13. Feed and feed tube25	.25	.25	.25	.25	.25	.25	.25	.25
12. Nib bushing25	.25	.25	.25	.25	.25	.25	.25	.25
16. Sheath	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32. Barrel complete	4.60	4.60	4.60	8.50	8.50	8.50	5.00	5.00	5.00
Pressure bar assembly with lever50	.50	.50	2.00	2.00	2.00	1.00	1.00	1.00
20. Sac10	.10	.10	.10	.10	.10	.10	.10	.10
30. Cap complete	4.35	4.35	4.35	25.00	25.00	25.00	12.50	12.50	12.50
31. Friction ring25	.25	.25	1.25	1.25	1.25	.65	.65	.65

Be sure to specify color when ordering Gold-Filled and Pyralin Parts

EVERSHARP SKYLINE REPEATER PENCIL



HOW TO OPERATE THE EVERSHARP REPEATING PENCIL

TO OPERATE PENCIL—Hold pencil with tip down. Press top (13) down and a lead will appear at the pencil's tip ready for writing. See Fig. 1. As you use up the lead simply press down on the top and more lead will appear at the tip.

Eversharp Repeating Pencils are continuous-feed pencils. Eight sticks of lead can be used before you need to reload.

The micrometric movement (measured feeding of square lead) is perfectly controlled. Each full press and release of the thumb produces at the tip the exact amount of square lead needed for writing.

Note: It may be necessary sometimes to shake the pencil several times to permit any leads which may have lodged in the magazine to be fed to the tip.

REPELLING LEAD—If a lead sticks out too far from the pencil's tip, press the top (13) down. When the top (13) is held down, the lead propel-

ling clutch (8) releases the stick of lead and permits you to push the lead at the tip back into the pencil.

HOW TO RELOAD—Remove the top (see Fig. 3). Then drop leads, two or three at a time, into magazine (11) through narrow slot (5). Do not push the leads through the narrow slot (5). Only a light touch with the finger is required. Forcing leads through the narrow slot is likely to shave lead dust from the lead stick corners which may later clog the tip.

The extension of the magazine becomes visible only when lead ceases to enter the clutch. It is a signal to reload the magazine. After reloading, the extension recedes within the barrel as soon as a lead stick enters the jaws of the propelling clutch (8).

WARNING:

1. Use only Eversharp Red Top Leads. Other leads may jam the pencil.
2. Never load more than 8 sticks of lead.



Fig. 1



Fig. 2



Fig. 3

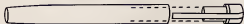


SKYLINE BARREL

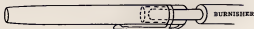
Consist of barrel and clip assembly

BARREL

CLIP ASSEMBLY



To repair clip. Remove complete clip assembly from barrel and replace with a new one.



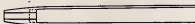
To remove assembly. 1. Crush top of clip assembly with pliers. 2. Insert burnishing tool between barrel and sleeve of clip assembly. Press down burnisher to free sleeve from barrel. 3. Remove burnisher and pull out complete clip assembly with pliers. 4. Use 5/16 drill in barrel if new assembly does not fit in easily. 5. Insert sleeve of new clip assembly in barrel and tap in with mallet.

SKYLINE REPEATER PENCIL (Cont'd)

MECHANISM



The repeater mechanism is made as a complete unit. The only removable part is the *clutch collar*. Old obsolete mechanisms have about $\frac{1}{4}$ inch longer *shoulder* than the present ones. To use a new mechanism on old barrels, it is necessary to *drill* the shoulder $\frac{1}{4}$ inch with a 17/64 drill.

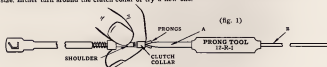


OLD STYLE BARREL
Drill Out $\frac{1}{4}$ Inch for New Mechanism

To use obsolete mechanism in new barrels, add as many washers to the mechanism needed (to shorten the *shoulder*) before inserting the mechanism into the barrel. (Use AK 22 washers.) Mechanism should protrude $\frac{1}{4}$ inch from barrel to be correct. (A little past the treads.)

REPAIR SKYLINE PENCIL MECHANISM AS FOLLOWS:

1. Clean out magazine leads through top. Press down *shoulder* (fig. #1) and insert B of 12-R-1 through bottom of prongs to insure clear lead channel.
2. Spread *Clutch prongs* by pressing down *shoulder* (fig. #1) and insert A of 12-R-1 into prongs up to *clutch collar*. Twist tool out slowly, pushing up *shoulder* at the same time. This will spread and straighten the prongs.
3. Tap *clutch prongs* with 12-R-2 tool (for standard leads) and 12-R-3 tool (for thin leads). Open *clutch jaws* and insert tap. Release *clutch jaws* and back out tap.
4. Test for lead slipping before inserting in barrel. If leads still slip the *clutch collar* may be over-size. Either turn around the *clutch collar* or try a new one.

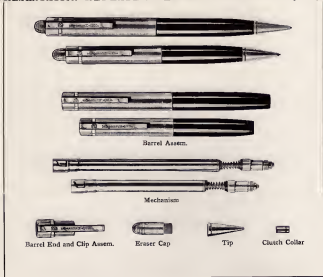


TIPS

Tip may become clogged with lead dust or broken bits. Occasionally colored leads swell and clog in warm, humid weather. Tap out loose lead bits and use drill to clean the end. Use #56 (12-R-2) drill for standard leads or #63 drill (12-R-3) for thin leads. If tip fails to hold lead snug, replace tip.

PRESENTATION REPEATER PENCIL

MODELS D-160—D-161—J-160—J-161

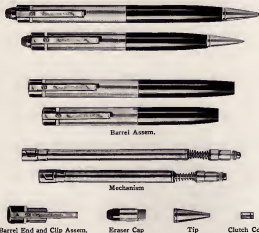


PRICE LIST

MODEL NO.	D-160		D-161	
	J-160		J-161	
List Price	\$5.00		\$5.00	
Part Name	Part No.	Price	Part No.	Price
Barrel Assem. less Clip Assem.	5126	\$2.75	5127	\$2.75
Barrel Only	5046	1.25	5047	1.25
Barrel Shell	5057	1.50	5058	1.50
Barrel End and Clip Assem.	6778	1.25	6778	1.25
Mechanism	5269	.50	5229	.50
Clutch Collar Only	6084	.10	6084	.10
Tip	6450	.50	6450	.50
Eraser Cap	5589	.60	5589	.60

PRESENTATION REPEATER PENCIL

MODELS 160—161

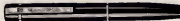
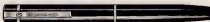
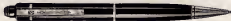
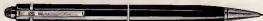


PRICE LIST

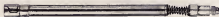
MODEL NO.	160		161	
List Price	\$5.00		\$5.00	
Part Name	Part No.	Price	Part No.	Price
Barrel Assem. less Clip Assem.	5126	\$2.75	5127	\$2.75
Barrel Only	5046	1.25	5047	1.25
Barrel Shell	5057	1.50	5058	1.50
Barrel End and Clip Assem.	6276	.75	6276	.75
Mechanism	5209	.50	5209	.50
Clutch Collar Only	6064	.10	6064	.10
Tip	6450	.50	6450	.50
Eraser Cap	5121	.15	5121	.15

SKYLINER REPEATER PENCIL

MODELS 176P—177P



Barrel Assem.



Mechanism



Barrel End and Clip Assem.



Eraser Cap



Tip



Clutch Collar

PRICE LIST

MODEL NO.	176P		177P	
List Price	\$3.75		\$3.75	
Part Name	Part No.	Price	Part No.	Price
Barrel Assem. less Clip Assem.	6767	\$1.75	6769	\$1.75
Barrel End and Clip Assem.	6278	.75	6278	.75
Mechanism	5269	.50	5229	.50
Clutch Collar	6084	.10	6084	.10
Tip	6450	.50	6450	.50
Eraser Cap	5121	.15	5121	.15

SKYLINER REPEATER PENCIL

MODELS 176—177



Barrel Complete



Mechanism Complete



Barrel End and Clip Assem.



Eraser Cap



Clutch Collar



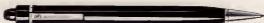
Tip

PRICE LIST

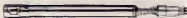
MODEL NO.	176		177	
List Price	\$3.75		\$3.75	
Part Name	Part No.	Price	Part No.	Price
Barrel Assem. less Clip Assem.	6768	\$1.75	6770	\$1.75
Barrel End and Clip Assem.	6278	.75	6278	.75
Mechanism	5269	.50	5229	.50
Clutch Collar	6084	.10	6084	.10
Tip	6450	.50	5450	.50
Eraser Cap	5121	.15	5121	.15

STREAMLINER REPEATER PENCIL

MODELS 198—199



Barrel Assem.



Mechanism



Barrel End and Clip Assem.



Eraser Cap



Tip



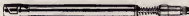
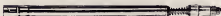
Clutch Collar

PRICE LIST

MODEL NO.	198		199	
List Price	\$2.00		\$2.00	
Part Name	Part No.	Price	Part No.	Price
Barrel less Clip Assem.	5297	\$1.00	5069	\$1.00
Barrel End and Clip Assem.	6277	.50	6277	.50
Mechanism	5269	.50	5229	.50
Clutch Collar	6064	.10	6064	.10
Tip	6450	.50	6450	.50
Eraser Cap	5121	.15	5121	.15

STREAMLINER REPEATER PENCIL

MODELS 198L—199L



Mechanism



Barrel End and Clip Assem.



Tip



Eraser Cap



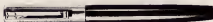
Clutch Collar

PRICE LIST

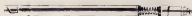
MODEL NO.	198L		199L	
	List Price	\$2.00	List Price	\$2.00
Part Name	Part No.	Price	Part No.	Price
Barrel less clip assem.	7077	\$1.00	7080	\$1.00
Barrel End and Clip Assem.	6277	.50	6277	.50
Mechanism	5269	.50	5229	.50
Clutch Collar	6084	.10	6084	.10
Tip	6450	.30	6450	.50
Eraser Cap	5121	.15	5121	.15

CA* and FIFTH AVENUE REPEATER PENCIL

MODELS 120—121 (157)



Barrel Complete



Mechanism Complete



Clip Only



Eraser Cap



Tip



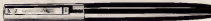
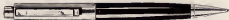
Clutch Collar

PRICE LIST

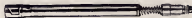
MODEL NO.	120		121 (157)	
List Price	\$5.50		\$6.50	
Part Name	Part No.	Price	Part No.	Price
Barrel Complete	10098	\$5.00	10101	\$5.00
Barrel Only	5043	1.25	5044	1.25
Shell Only	5055	3.25	5055	3.25
Clip Only	10016	.50	10016	.50
Mechanism Complete	5299	.50	5229	.50
Clutch Collar	6084	.10	6084	.10
Tip	6450	.50	6450	.50
Eraser Cap	5042	.50	5042	.50

STAINLESS STEEL CA* REPEATER PENCIL

MODELS 126-127



Barrel Complete



Mechanism Complete



Clip Only



Eraser Cap



Tip



Clutch Collar

PRICE LIST

MODEL NO.	126		127	
	\$4.00		\$4.00	
List Price				
Part Name	Part No.	Price	Part No.	Price
Barrel Complete	5616	\$2.75	5615	\$2.75
Barrel Only	5043	1.25	5044	1.25
Shell Only	5592	1.00	5592	1.00
Clip Only	6648	.50	6648	.50
Mechanism Complete	5259	.50	5229	.50
Clutch Collar	6084	.10	6084	.10
Tip	6450	.50	6450	.50
Eraser Cap	5042	.50	5042	.50

EVERSHARP CA* PEN

MODEL No. 25-25L



ASSEMBLY OF PEN

1. Assemble barrel and adaptor. 2. Screw tip and cartridge assembly in adaptor. 3. Test tip by writing a series of circles or figures of eight (8). No attempt should be made to repair the tip as this is a precision assembly and requires special equipment for handling. 4. Check vent hole in barrel to be certain it is free of obstruction.



BARREL COMPLETE

ADAPTOR

CAP COMPLETE



CARTRIDGE AND TIP ASSEMBLY

The repair procedure for the Model #25 pen cap is the same as the procedure used for the standard Skyline pen cap. This procedure is outlined on Page All parts are interchangeable with the exception of the cap plug. An aluminum inner plug has been pressed into the cap end. This acts as a stop for the cap when screwing it on to the barrel.

IMPORTANT: This cap end must not be used on a nib pen. It will crush the nib.

PRICE LIST

MODEL NO.	25		25L	
List Price	\$3.95		\$3.95	
Part Name	Part No.	Price	Part No.	Price
Cap Complete	6694	\$2.10	7070	\$1.60
Cap Only	6803	.75	7069	.60
Cap End and Clip Assem.	6813	1.35	7098	1.00
Cap End and Inner Plug Assem.	6811	.50	7098	.50
Outer Clip	10037	.35	5666	.25
Inner Clip	5098	.25	6203	.25
Clip Band	5099	.25	—	—
Barrel	5925	1.25	5925	1.25
Adaptor	6741	.75	6741	.75
Cartridge	6919	.50	6919	.50

EVERSHARP CA* PEN

MODELS 26—27—37

All Eversharp CA Pens consist of Barrel or Barrel Assembly, Cap Assembly, Tip and Cartridge Assembly



END LINER

BARREL COMPLETE

ADAPTOR
AND RING

TIP AND CARTRIDGE

BARREL REPAIR

1. Consists of replacing barrel end which is a gold shell and pierced liner soldered together.
2. Pull off barrel end assembly with section pliers. 3. Tap top of barrel into barrel end assembly with a mallet. Important: Barrel must have open vent hole, either in barrel end or in side of barrel.

CAP REPAIR

Cap is a conventional snap fit design and is furnished as a complete unit.



1. Tighten clip by inserting clip and spring tool (#10-R-1) into cap and tap clip, by the check marks, with a mallet. Be sure there is no inner cap before tapping. 2. To replace friction spring, cut beveled end of cap holding spring, with lathe tool. 3. Pull out friction spring with hook. 4. Insert new spring between liner and cap shell with clip and spring tool. Spin in with a flat burnisher #10-R-7. Use 61 cap insert (cut out for clip) over cap when using lathe for spring repair to prevent chuck from marring cap.



- A. To tighten clip. B. To insert friction spring in cap.
C. Use end to shape cap top if it gets flat.

PARTS LIST

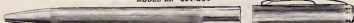
EVERSHARP CA* PENS

MODEL NO.	26		27		37	
List Price	\$5.95		\$5.95		\$7.95	
Part Name	Part No.	Price	Part No.	Price	Part No.	Price
Cap Complete	6829	\$3.35	6839	\$3.35	6403	\$4.35
Clip Only	6641	.60	6641	.60	6407	.60
Barrel Complete	6823	2.50	6416	2.50	5732	2.50
Barrel End Only	6413	.25	6413	.25	5279	.25
Adaptor with Ring	5921	1.10	5921	1.10	5921	1.10
Cartridge	6919	.50	6921	.50	6621	.50

EVERSHARP CA* REPEATER PENS



MODEL RH "CUT-OUT"



BARREL ASSEMBLY

PUSH CAP ASSEMBLY



CARTRIDGE AND TIP ASSEMBLY

MECHANISM ASSEMBLY

Repairs to the CA Repeater Pen will consist chiefly of replacement of parts. No attempt should be made to repair the various assemblies, as specialized tooling would be required. Dents may be removed with 10-R-2 tool. Insert tool into barrel and burnish.

DIS-ASSEMBLY OF PEN



Remove push cap—cap at all times fit design and is removed by pulling from barrel assembly.



Remove mechanism assembly. Remove mechanism adaptor from barrel assembly, turning in counter-clockwise direction.



Remove tip and cartridge assembly from barrel. Hold cap end of barrel down and tip and cartridge assembly will slide out.

ASSEMBLY OF PEN



Examine barrel assembly carefully for possible obstruction in barrel. Be sure inside of barrel is clean.

Wipe several times with tip and cartridge assembly. Be sure securing spring is in place in inside of cartridge. If satisfactory, insert tip and cartridge assembly in barrel.



Examine mechanism assembly for possible defects. Mechanism should be clean and lubricated with a small amount of vasoline. If mechanism appears satisfactory, assemble to barrel. Insert mechanism in barrel and turn clockwise, tightening firmly in place. Operate mechanism several times. If pen does not operate properly, replace mechanism.



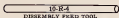
Assemble cap to barrel. Press cap firmly in place and operate several times. Check cap for snug fit on the pen. If cap does not fit properly, remove cap. Using a screwdriver blade, spread a prying in cap plug to detent fit.

PARTS LIST

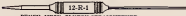
MODEL NO.	R-37	R-29	R-25				
List Price	\$9.95	\$9.95	\$105.00	Purchase	Exchange*		
Part Name	Part No.	Price	Part No.	Price	Part No.	Price	Price
Cap Complete	6133	\$4.00	6133	\$4.00	6249	\$45.00	\$22.50
Clip Only	6114	.50	6144	.50	6248	10.00	5.00
Barrel Complete	6121	5.00	6254	4.50	6246	60.00	30.00
Mechanism	6638	1.50	6638	1.50	6638	1.50	1.50
Cartridge	6939	.50	6939	.50	6639	.50	.50

* Exchange price based on salvage value of gold in exchanged solid gold parts.

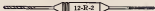
STANDARD TOOLS



10-R-4
DISASSEMBLY FIXED TOOL



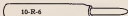
12-R-1
PENCIL MECH CLUTCH STRAIGHTENER



12-R-2
A-B TAP AND B DRILL PENCIL MECH. TOOL



10-R-5
PRESSURE BAR ASSEMBLY TOOL



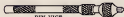
10-R-6
NIB BURNISHER



10-R-7
TASSE BURNISHER



11-R-1
CAP THREAD REMOVER



PIN VICE



10-R-1
C A CAP CLIP & SPRING TOOL



NIB PLIERS

11-R-2



ANVIL
11-R-4



11-R-3
PEN PLUG
& CAP
STRAIGHTENER



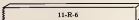
NIB ASSEMBLING TOOL



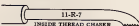
MAG GLASS



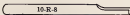
11-R-5
PLUG TAP



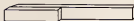
11-R-6
OUTSIDE THREAD CHASER



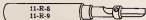
11-R-7
INSIDE THREAD CHASER



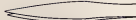
10-R-8
NIB UNIT ASSEMBLY TOOL



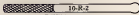
BUFF STICK



11-R-8
11-R-9
HAND SECTION KRAMER



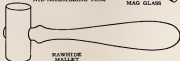
TWEEZERS



10-R-2
DENT REMOVER



SECTION REMOVER PLIERS



RAWHIDE
MALLET

STANDARD TOOLS

New Number	Old Number	Name	Price
10-R-4	L-100	DISASSEMBLY FEED TOOL.....	\$.40
10-R-5	L-105	PRESSURE BAR ASSEMBLY TOOL.....	1.20
10-R-6	#5	NIB BURNISHER.....	2.75
10-R-7	#1738	TASSE BURNISHER.....	3.00
11-R-1	#D119	CAP THREAD REMOVER.....	1.75
		PIN VISE.....	1.25
10-R-1		C. A. CAP CLIP AND SPRING TOOL.....	3.00
11-R-2	#1	NIB PLIERS.....	4.00
11-R-3		PEN PLUG AND CAP STRAIGHTENER.....	6.00
11-R-4	#47	ANVIL.....	7.50
11-R-5	#5084	PLUG TAP.....	2.50
11-R-6	#A1743	OUTSIDE THREAD CHASER.....	3.00
11-R-7	#A1735	INSIDE THREAD CHASER.....	3.00
10-R-8	#A6009	5TH AVE. NIB ASSEMBLY TOOL.....	1.25
		BUFF STICK.....	.15
11-R-8	#D110	HAND SECTION REAMER (SMALL FEED).....	2.00
11-R-9	#D111	HAND SECTION REAMER (LARGE FEED).....	2.00
		TWEEZERS.....	1.00
10-R-2		DENT REMOVER.....	3.00
	#16	SECTION REMOVER PLIERS.....	2.00
10-R-9	#1-106	5TH AVE. NIB ASSEMBLING TOOL.....	8.50
		MAG. GLASS.....	2.00
	#45	RAWHIDE Mallet.....	1.10
12-R-1		PENCIL MECH. CLUTCH STRAIGHTENER.....	1.00
12-R-2		A-S TAP AND 56 DRILL PENCIL MACH. TOOL.....	1.30
12-R-3	A-8-1	TAP (THIN LEAD MECH.).....	1.00
	#63	DRILL (THIN LEAD TIPS).....	.30
	#2	DRILL (LARGE PEN FEED) #2.....	.30
	#5	DRILL (SMALL PEN FEED) #5.....	.30
	17/64	DRILL (PENCIL MECH. SHOULDER).....	.50
	5/16	DRILL (PENCIL CLIP SLEEVE).....	.50
	000	EMERY PAPER FOR NIBS.....	.05
		SHINO POLISHING CLOTH.....	.20
	3-M	METAL CAP CEMENT.....	.30